III. REMARKS

The claims have had status indications added to them.   It is therefore submitted that they are no longer objectionable.

Claim 7 has been amended as requested.   It is therefore submitted that it conforms to 35 U.S.C. 112, 2nd paragraph.

The present invention relates to the loading of the user interface software in at least two phases, in which the second phase is conducted when the expansion card is coupled to the electronic device [all independent claims 1, 7 and 14].

The main advantage of the present invention compared to the two references [Settsu et al. and Garney] is that the [abstract], and they are not expansion cards.   However, the present invention relates to expansion cards [claim 1].

In the present invention, the basic module is loaded, and after it has been completely loaded, the loading is finished and the basic module starts to listen about the attaching of the card. The interrupt signals to the basic module that the card is attached to the device. The basic module is already loaded completely when the card is attached to the device. Moreover, the basic module loads the user interface module when the card is attached to the device.

With regard to the cited references, it is noted that first of all, Settsu et al relates to using a mini operating system module for initialization the mini kernel module and the boot device driver module.   The mini operating system module generates and starts the execution of an application execution and operating system loading the processing module.   After this,

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the application execution and operating system loading processing module loads the application module from the file system into the memory and further loads some functional modules required for the application module in the memory [column 3, line 60, to column 4, line 2].

Settsu et al relates to loading the modules directly from the beginning to the end, and there is no mention anywhere that the loading could be stopped, for example, when some expansion card is attached to the device. However, in claim 1 of the present application, it is said that "…the second phase is conducted when the expansion card [1] is coupled to the electronic device [3]".

Moreover, Settsu et al does not directly mention the user interface module [cf. Claim 1 of the present application].

Also, Settsu et al does not enable the attachment of an expansion card during the loading of the modules [column 3, line 48, to column 4, line 33]. The application is predetermined before the operational modules are loaded and the application could be started automatically after all the necessary modules have been loaded [column 3, line 48, to column 4, line 33]. Moreover, Settsu et al does not relate to expansion cards at all. Also the user interface itself is not disclosed in Settsu et al.

Garney discloses feature cards and not expansion cards [abstract]. This document does not related to the loading of user interface software of an expansion card in at least two phases, or that the second phase is conducted when the expansion card is coupled to the electronic device [abstract of Garney,

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lines 7 to 19] [cf. Claim 1 of the present application].   The
two phases in Garney are carried out when the feature card is
already inserted in the computer system [abstract of Garney,
lines 7 to 19].

Garney relates to a computer system which comprises a processor,
a system memory and an interface for receiving removable system
features, such as feature cards [abstract].   Moreover, the
expansion card is not directly mentioned in Garney.   Only
feature cards are disclosed [abstract],   and they are not
expansion cards.   However, the present invention relates to
expansion cards [claim 1].

The main advantage of the present invention compared to the two
references [Settsu et al and Garney] is that the loading of the
user interface software is faster, since it is not necessary to
load all the user interface software at once.   This is because
the user interface software is loaded in at least two phases,
and the second phase is conducted when the expansion card is
attached to the electronic device.   Moreover, the system is
substantially independent of the operating system.   Also, by the
invention, it is. easy to implement different language versions
and to notify the user about possible error situations, because
the operating system does not have to stop to wait for an
acknowledgement of the error [page 6, lines 1 to 16].

Further, the Examiner has combined the Settsu and Garney
references. This combination would not be obvious for a person
skilled in the art, because Settsu et al does not relate to
expansion cards and because Garney does not relate to loading
the user interface software in at least two phases, the second
phase to be conducted when the expansion card is coupled to the

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electronic device.   Moreover, Garney does not directly mention expansion cards.

The independent claims have been amended to recite "the basic module receives a signal about attaching an expansion card to the electronic device and that the basic module loads the user interface module".   Since this limitation is not found in, or suggested by, any reference, all claims are patentable.

New claims 15-28 are based upon previous claims 1-14, but also recite "wherein said loading can be stopped between said phases", which the Examiner pointed out on pages 9 and 10 of the final rejection is missing from the claims.   As previously argued by the applicants, this feature is totally missing from the references, even when taken in combination.   The advantages of this feature are faster loading, substantial independence from the operating system, and ease of implementing different languages.

For all of the above reasons, claims 15-28 are patentable under 35 USC 103 over all references.

For all of the foregoing reasons, it is respectfully submitted that all of the claims now present in the application are clearly novel and patentable over the prior art of record, and are in proper form for allowance.   Accordingly, favorable reconsideration and allowance is respectfully requested.   Should any unresolved issues remain, the Examiner is invited to call Applicants' attorney at the telephone number indicated below.

The Commissioner is hereby authorized to charge $396.00 for the added claims and payment for any other fees associated with this communication or credit any over payment to Deposit Account No. 16-1350.

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Respectfully submitted,

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Date _Aug 15, 2003_

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